

IFWO

RAW SEQUENCE LISTING DATE: 08/30/2004 PATENT APPLICATION: US/10/775,481A TIME: 14:42:34

Input Set : A:\08321-168 US1.TXT

Output Set: N:\CRF4\08302004\J775481A.raw

```
4 <110> APPLICANT: Waldman, Scott A.
 5
         Pitari, Giovanni Mario
         Park, Jason
 6
         Schulz, Stephanie
         Wolfe, Henry R.
 9
         Lubbe, Wilhelm
11 <120> TITLE OF INVENTION: The Use Of GCC Ligands
14 <130> FILE REFERENCE: 08321-0168 US1
16 <140> CURRENT APPLICATION NUMBER: US 10/775,481A
17 <141> CURRENT FILING DATE: 2004-02-10
19 <150> PRIOR APPLICATION NUMBER: US 60/446,730
20 <151> PRIOR FILING DATE: 2003-02-10
22 <160> NUMBER OF SEQ ID NOS: 56
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 57
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: encodes heat stable toxin peptide of SEQ ID NO: 2
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (1)...(57)
37 <400> 1
38 aac aac aca ttt tac tgc tgt gaa ctt tgt tgt aat cct gcc tgt gct
39 Asn Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala
40
   1
                    5
42 gga tgt tat
                                                                       57
43 Gly Cys Tyr
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 19
49 <212> TYPE: PRT
50 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: heat stable toxin peptide Ia
55 <400> SEQUENCE: 2
56 Asn Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala
57
                                                            15
58 Gly Cys Tyr
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 18
64 <212> TYPE: PRT
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
```

DATE: 08/30/2004

TIME: 14:42:34

Input Set : A:\08321-168 US1.TXT Output Set: N:\CRF4\08302004\J775481A.raw 68 <223> OTHER INFORMATION: heat stable toxin peptide I* 70 <400> SEQUENCE: 3 71 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly 73 Cys Asn 77 <210> SEQ ID NO: 4 78 <211> LENGTH: 57 79 <212> TYPE: DNA 80 <213> ORGANISM: Artificial Sequence 82 <220> FEATURE: 83 <223> OTHER INFORMATION: encodes heat stable toxin peptide of SEQ ID NO: 5 > 85 <221> NAME/KEY: CDS 86 <222> LOCATION: (1)...(57) > 88 <400> 4 89 aat agt agc aat tac tgc tgt gaa ttg tgt tgt aat cct gct tgt aac 90 Asn Ser Ser Asn Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Asn .93 ggg tgc tat 57 94 Gly Cys Tyr 98 <210> SEQ ID NO: 5 99 <211> LENGTH: 19 100 <212> TYPE: PRT 101 <213> ORGANISM: Artificial Sequence 103 <220> FEATURE: 104 <223> OTHER INFORMATION: heat stable toxin peptide Ib 106 <400> SEQUENCE: 5 107 Asn Ser Ser Asn Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Asn 108 1 109 Gly Cys Tyr 113 <210> SEQ ID NO: 6 114 <211> LENGTH: 15 115 <212> TYPE: PRT 116 <213> ORGANISM: Artificial Sequence 118 <220> FEATURE: 119 <223> OTHER INFORMATION: guanylin. 121 <400> SEQUENCE: 6 122 Pro Asn Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys 126 <210> SEQ ID NO: 7 127 <211> LENGTH: 18 128 <212> TYPE: PRT 129 <213> ORGANISM: Artificial Sequence 131 <220> FEATURE: 132 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2 134 <400> SEQUENCE: 7 135 Asn Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala 136 1 10 137 Gly Cys

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/775,481A

141 <210> SEQ ID NO: 8

RAW SEQUENCE LISTING DATE: 08/30/2004 PATENT APPLICATION: US/10/775,481A TIME: 14:42:34

Input Set : A:\08321-168 US1.TXT

Output Set: N:\CRF4\08302004\J775481A.raw

142 <211> LENGTH: 17 143 <212> TYPE: PRT 144 <213> ORGANISM: Artificial Sequence 146 <220> FEATURE: 147 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2 149 <400> SEQUENCE: 8 150 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly 151 1 10 152 Cys 156 <210> SEQ ID NO: 9 157 <211> LENGTH: 16 158 <212> TYPE: PRT 159 <213> ORGANISM: Artificial Sequence 161 <220> FEATURE: 162 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2 164 <400> SEQUENCE: 9 165 Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys 166 1 169 <210> SEQ ID NO: 10 170 <211> LENGTH: 15 171 <212> TYPE: PRT 172 <213> ORGANISM: Artificial Sequence 174 <220> FEATURE: 175 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2 177 <400> SEQUENCE: 10 178 Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys 179 **1** 5 182 <210> SEQ ID NO: 11 183 <211> LENGTH: 14 184 <212> TYPE: PRT 185 <213> ORGANISM: Artificial Sequence 187 <220> FEATURE: 188 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2 190 <400> SEQUENCE: 11 191 Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys 192 1 5 195 <210> SEQ ID NO: 12 196 <211> LENGTH: 13 197 <212> TYPE: PRT 198 <213> ORGANISM: Artificial Sequence 200 <220> FEATURE: 201 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2 203 <400> SEQUENCE: 12 204 Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys 205 1 5 208 <210> SEQ ID NO: 13 209 <211> LENGTH: 18

210 <212> TYPE: PRT

211 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 08/30/2004 PATENT APPLICATION: US/10/775,481A TIME: 14:42:34

Input Set : A:\08321-168 US1.TXT

Output Set: N:\CRF4\08302004\J775481A.raw

```
213 <220> FEATURE:
214 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2
216 <400> SEQUENCE: 13
217 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly
218 1
219 Cys Tyr
223 <210> SEQ ID NO: 14
224 <211> LENGTH: 17
225 <212> TYPE: PRT
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2
231 <400> SEQUENCE: 14
232 Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys
233 1
                     5
234 Tyr
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 16
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2
246 <400> SEQUENCE: 15
247 Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys Tyr
248 1
                                        10
251 <210> SEQ ID NO: 16
252 <211> LENGTH: 15
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2
259 <400> SEQUENCE: 16
260 Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys Tyr
261 1
                     5
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 14
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: fragment of SEQ ID NO: 2
272 <400> SEQUENCE: 17
273 Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly Cys Tyr
274 1
                     5
277 <210> SEQ ID NO: 18
278 <211> LENGTH: 17
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
```

283 <223> OTHER INFORMATION: fragment of SEQ ID NO: 3

RAW SEQUENCE LISTING DATE: 08/30/2004
PATENT APPLICATION: US/10/775,481A TIME: 14:42:34

Input Set : A:\08321-168 US1.TXT

Output Set: N:\CRF4\08302004\J775481A.raw

285 <400> SEQUENCE: 18 286 Asn Thr Phe Tyr Cys Cys Gly Leu Cys Cys Tyr Pro Ala Cys Ala Gly 5 287 1 288 Cys 292 <210> SEQ ID NO: 19 293 <211> LENGTH: 16 294 <212> TYPE: PRT 295 <213> ORGANISM: Artificial Sequence 297 <220> FEATURE: 298 <223> OTHER INFORMATION: fragment of SEQ ID NO: 3 300 <400> SEQUENCE: 19 301 Thr Phe Tyr Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly Cys 302 1 305 <210> SEQ ID NO: 20 306 <211> LENGTH: 15 307 <212> TYPE: PRT 308 <213> ORGANISM: Artificial Sequence 310 <220> FEATURE: 311 <223> OTHER INFORMATION: fragment of SEQ ID NO: 3 313 <400> SEQUENCE: 20 314 Phe Tyr Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly Cys 315 1 318 <210> SEQ ID NO: 21 319 <211> LENGTH: 14 320 <212> TYPE: PRT 321 <213> ORGANISM: Artificial Sequence 323 <220> FEATURE: 324 <223> OTHER INFORMATION: fragment of SEQ ID NO: 3 326 <400> SEQUENCE: 21 327 Tyr Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly Cys 328 1 331 <210> SEQ ID NO: 22 332 <211> LENGTH: 13 333 <212> TYPE: PRT 334 <213> ORGANISM: Artificial Sequence 336 <220> FEATURE: 337 <223> OTHER INFORMATION: fragment of SEQ ID NO: 3 339 <400> SEQUENCE: 22 340 Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly Cys 341 1 5 10 344 <210> SEQ ID NO: 23 345 <211> LENGTH: 17 346 <212> TYPE: PRT 347 <213> ORGANISM: Artificial Sequence 349 <220> FEATURE: 350 <223> OTHER INFORMATION: fragment of SEQ ID NO: 3 352 <400> SEQUENCE: 23 353 Thr Phe Tyr Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly Cys 354 1 10

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/775,481A

DATE: 08/30/2004 TIME: 14:42:35

Input Set : A:\08321-168 US1.TXT

Output Set: N:\CRF4\08302004\J775481A.raw

L:34 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:37 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:85 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:88 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4